

ABSTRACTSPEECH PROCESSING SYSTEM

5 A speech processing system is provided which is operable
to receive sets of signal values representative of a
speech signal generated by a speech source. The system
is operable to determine a measure of the quality of the
speech signal by performing a statistical analysis of the
received sets of signal values. The system stores data
10 defining a predetermined function derived from a signal
model which models the speech source and which defines a
probability density function which gives, for a given set
of model parameters, the probability that the signal
model has those model parameters given that the signal
15 model is assumed to have generated the received set of
signal values. The system applies a current set of
received signal values to the stored probability density
function and then draws samples from it using a Gibbs
sampler. The system then analyses the samples to
20 determine a measure of the variance of some of the
samples and then outputs a signal indicative of the
quality of the received speech signal values in
dependence upon the determined variance.